

24.09.2023 - KRAKÓW

- Gravity **11.2 BLG**
- ABV **4.5 %**
- IBU **41**
- SRM **3.5**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **18 liter(s)**
- Trub loss **5 %**
- Size with trub loss **18.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **23.8 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **10.5 liter(s)**
- Total mash volume **14 liter(s)**

Steps

- Temp **62 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **76 C**, Time **1 min**

Mash step by step

- Heat up **10.5 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **40 min** at **62C**
- Keep mash **20 min** at **72C**
- Keep mash **1 min** at **76C**
- Sparge using **16.8 liter(s)** of **76C** water or to achieve **23.8 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pilsner Malt	3.3 kg (94.3%)	81 %	5
Grain	Pszeniczny	0.2 kg (5.7%)	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	23 g	60 min	12.1 %
Boil	Cascade	10 g	10 min	6.5 %
Aroma (end of boil)	Chinook	20 g	1 min	12.1 %
Aroma (end of boil)	Cascade	30 g	1 min	6.5 %

Yeasts

Name	Type	Form	Amount	Laboratory
Lutra OYL-071	Ale	Slant	200 ml	Omega